

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P520716

Luminaire Tested: **8WSLA-175-L935-UPL8-UNV-U**

Issue Date: 5/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P520716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 8WSLA-175-L935-UPL8-UNV-U  
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

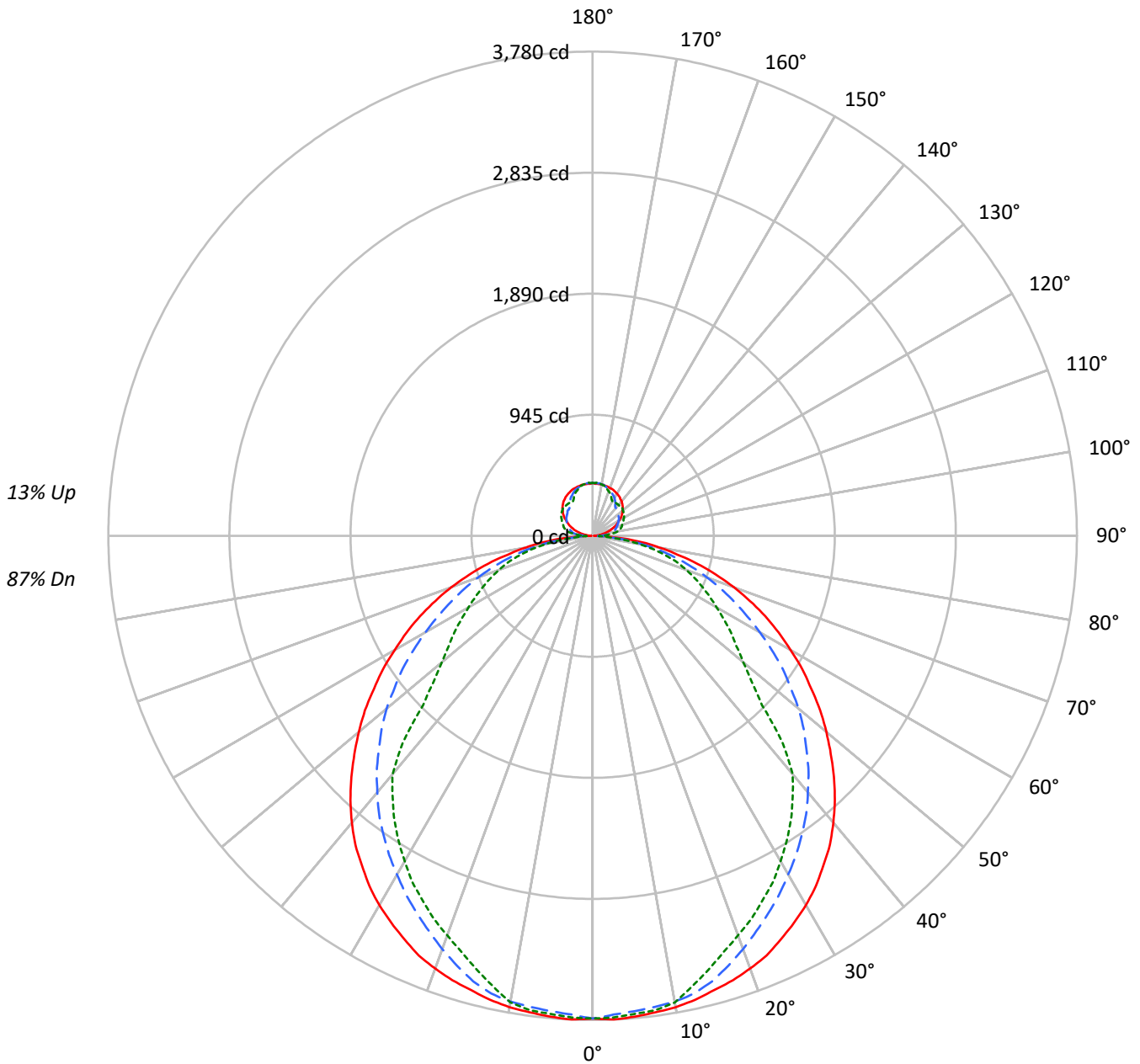
Lumens per Lamp: N/A  
Luminaire Lumens: 11730.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 119  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10143	10143	10143
5°	10181	10064	10123
10°	10210	10092	10106
15°	10228	10032	9760
20°	10297	9831	9505
25°	10322	9645	9323
30°	10347	9487	9117
35°	10315	9353	8872
40°	10268	9183	8535
45°	10134	8978	7120
50°	9967	8786	6425
55°	9770	8498	6183
60°	9602	8114	6013
65°	9462	7769	6008
70°	9216	7467	6102
75°	8796	7104	6146
80°	8237	6388	5715
85°	7534	4520	3850



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.8	3.0
10°-20°	1014.4	8.6
20°-30°	1515.8	12.9
30°-40°	1809.4	15.4
40°-50°	1809.6	15.4
50°-60°	1566.1	13.4
60°-70°	1202.1	10.2
70°-80°	736.6	6.3
80°-90°	207.4	1.8
90°-100°	117.2	1.0
100°-110°	186.0	1.6
110°-120°	217.5	1.9
120°-130°	234.8	2.0
130°-140°	231.3	2.0
140°-150°	204.7	1.7
150°-160°	168.4	1.4
160°-170°	112.7	1.0
170°-180°	39.3	0.3
0°-30°	2887.0	24.6
0°-40°	4696.4	40.0
0°-60°	8072.1	68.8
0°-90°	10218.1	87.1
90°-120°	520.7	4.4
90°-150°	1191.5	10.2
90°-180°	1512.0	12.9
0°-180°	11730.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3769	3769	3769	3769	3769	
5°	3769	3758	3726	3753	3747	359
15°	3672	3666	3601	3536	3503	1039
25°	3476	3433	3248	3162	3140	1604
35°	3140	3059	2847	2744	2701	1966
45°	2663	2587	2359	2148	1871	2053
55°	2082	2034	1811	1448	1318	1867
65°	1486	1432	1220	982	944	1468
75°	846	803	683	591	591	892
85°	244	201	146	125	125	255
90°	11	38	60	76	81	17
95°	43	92	125	130	130	43
105°	125	130	184	217	228	131
115°	206	174	217	250	266	201
125°	277	222	250	287	298	246
135°	331	298	277	304	320	255
145°	369	352	309	304	314	230
155°	390	385	363	347	342	180
165°	401	407	396	396	396	114
175°	407	412	412	418	418	39
180°	412	412	412	412	412	



TEST NUMBER: P520716

CATALOG NUMBER: 8WSLA-175-L935-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3769.1	3769.1	3769.1	3769.1	3769.1
2.5°	3780.0	3769.1	3742.0	3769.1	3763.7
5°	3769.1	3758.3	3725.7	3752.9	3747.4
7.5°	3752.9	3742.0	3709.5	3742.0	3736.6
10°	3736.6	3725.7	3693.2	3714.9	3698.6
12.5°	3709.5	3698.6	3660.7	3633.5	3601.0
15°	3671.5	3666.1	3601.0	3535.9	3503.4
17.5°	3639.0	3622.7	3519.7	3443.7	3405.8
20°	3595.6	3568.5	3432.9	3346.1	3319.0
22.5°	3546.8	3503.4	3340.7	3259.3	3237.7
25°	3476.3	3432.9	3248.5	3161.7	3140.0
27.5°	3405.8	3351.5	3156.3	3069.5	3047.8
30°	3329.8	3253.9	3053.3	2971.9	2934.0
32.5°	3243.1	3167.1	2955.6	2863.5	2820.1
35°	3140.0	3058.7	2847.2	2744.1	2700.8
37.5°	3042.4	2955.6	2738.7	2624.8	2565.2
40°	2923.1	2836.3	2614.0	2489.2	2429.6
42.5°	2798.4	2717.0	2494.7	2342.8	2196.4
45°	2662.8	2586.9	2359.1	2147.6	1871.0
47.5°	2521.8	2456.7	2234.4	1946.9	1681.2
50°	2380.8	2315.7	2098.8	1757.1	1534.8
52.5°	2239.8	2185.6	1946.9	1599.8	1415.5
55°	2082.5	2033.7	1811.3	1448.0	1317.8
57.5°	1941.5	1892.7	1654.1	1323.3	1214.8
60°	1784.2	1740.8	1507.7	1198.5	1117.2
62.5°	1637.8	1589.0	1361.2	1090.1	1030.4
65°	1486.0	1431.7	1220.2	981.6	943.6
67.5°	1328.7	1274.5	1084.6	884.0	862.3
70°	1171.4	1128.0	949.1	786.4	775.5
72.5°	1008.7	959.9	813.5	694.2	694.2
75°	846.0	802.6	683.3	591.1	591.1
77.5°	677.9	656.2	547.7	482.7	488.1
80°	531.5	504.4	412.2	368.8	368.8
82.5°	390.5	357.9	276.6	244.0	254.9
85°	244.0	200.7	146.4	124.7	124.7
87.5°	75.9	59.7	43.4	48.8	48.8
90°	10.8	38.0	59.7	75.9	81.3
92.5°	27.1	70.5	86.8	103.0	108.5
95°	43.4	92.2	124.7	130.2	130.2
97.5°	59.7	103.0	151.8	173.5	173.5
100°	81.3	108.5	162.7	195.2	200.7
102.5°	103.0	119.3	173.5	206.1	216.9
105°	124.7	130.2	184.4	216.9	227.8



TEST NUMBER: P520716

CATALOG NUMBER: 8WSLA-175-L935-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	184.4	162.7	206.1	244.0	254.9
115°	206.1	173.5	216.9	249.5	265.7
117.5°	222.4	189.8	227.8	260.3	271.2
120°	238.6	200.7	233.2	271.2	282.0
122.5°	260.3	211.5	244.0	276.6	292.9
125°	276.6	222.4	249.5	287.4	298.3
127.5°	292.9	244.0	254.9	292.9	303.7
130°	303.7	265.7	260.3	298.3	309.1
132.5°	320.0	282.0	265.7	303.7	314.5
135°	330.8	298.3	276.6	303.7	320.0
137.5°	341.7	314.5	276.6	303.7	314.5
140°	352.5	330.8	282.0	303.7	314.5
142.5°	357.9	341.7	287.4	303.7	314.5
145°	368.8	352.5	309.1	303.7	314.5
147.5°	374.2	363.4	325.4	303.7	314.5
150°	379.6	374.2	341.7	309.1	309.1
152.5°	385.0	379.6	352.5	330.8	320.0
155°	390.5	385.0	363.4	347.1	341.7
157.5°	395.9	395.9	374.2	363.4	357.9
160°	395.9	401.3	385.0	374.2	368.8
162.5°	401.3	406.7	390.5	385.0	379.6
165°	401.3	406.7	395.9	395.9	395.9
167.5°	406.7	412.2	406.7	401.3	401.3
170°	406.7	412.2	406.7	406.7	406.7
172.5°	406.7	412.2	412.2	412.2	412.2
175°	406.7	412.2	412.2	417.6	417.6
177.5°	406.7	412.2	412.2	412.2	412.2
180°	412.2	412.2	412.2	412.2	412.2



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	146.4	141.0	189.8	227.8	238.6
110°	162.7	151.8	200.7	233.2	244.0



(END OF REPORT)